

Title (en)
PRODUCTION OF MICROSPHERES

Title (de)
HERSTELLUNG VON MIKROKÜGELCHEN

Title (fr)
PRODUCTION DE MICROSPHERES

Publication
EP 1335661 B1 20090506 (EN)

Application
EP 01987562 A 20011025

Priority
• US 0151166 W 20011025
• US 24409800 P 20001027

Abstract (en)
[origin: US7374782B2] Protein microspheres are produced by contacting an aqueous solution of a macromolecule and a polymer with a surface at a high surface area to volume ratio, and heating the solution. The microspheres are useful for preparing pharmaceuticals of defined dimensions which can be delivered to a patient by inhalation therapy.

IPC 8 full level
A61K 9/14 (2006.01); **A61K 9/16** (2006.01); **A61K 31/715** (2006.01); **A61K 9/00** (2006.01)

CPC (source: EP US)
A61K 9/1635 (2013.01 - EP US); **A61K 9/1641** (2013.01 - EP US); **A61K 9/1694** (2013.01 - EP US); **A61K 31/715** (2013.01 - EP US);
A61K 9/0073 (2013.01 - EP US)

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DOCDB simple family (publication)
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EP 1335661 A4 20070822; EP 1335661 B1 20090506; ES 2326209 T3 20091005; US 2004043077 A1 20040304; US 7374782 B2 20080520

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US 0151166 W 20011025; AT 01987562 T 20011025; DE 60138641 T 20011025; EP 01987562 A 20011025; ES 01987562 T 20011025;
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